

MULTIPLE FREQUENCY PROPAGATION WAVE RESISTIVITY (MFPWR RESISTIVITY)

MFPWR Resistivity[®] is a spatially compensated, dual-frequency (2 MHz & 400 kHz), dual-spacing device designed for wireline-equivalent Logging-While-Drilling (LWD) services in all well types.

Applications include geosteering, correlation, casing point selection, logging while tripping & reservoir evaluation.

- Operates in all mud types including oilbased and salt-saturated and provides real-time resistivity to surface via MP or EM transmission
- Quad Transmitter/Dual Receiver arrangement provides 16 individual resistivity measurements which are combined to produce 8 compensated measurements
- 8 curves transmitted in real time (user selectable)
- 8 curves available from tool memory
- Tools are powered by Lithium Thionyl Chloride Batteries (replaceable at the rig site) or by Turbine Generator





www.remotemeasurementsystems.com +44-1224-781257



TECHNICAL SPECIFICATIONS

Nominal Tool Sizes	3 ½" [89 mm]	4 ¾ " [121 mm]	6 ¾"[171 mm]	8 ¼ " [209 mm]	9 ½″ [241
Length	10.26' [3.13m]	12.4' [3.79 m]	12.4' [3.79 m]	12.4' [3.79 m]	12.4' [3.79
DLS Slide [deg/30m]	25	30	20	15	15
DLS Rotate [deg/30m]	15	15	10	8	8
Flow Rate	150gpm [11.36 l/s]	480gpm [36.37 l/s]	800gpm [60.61 l/s]	1100gpm [83.34 l/s]	1200 gpm [90
Temperature	347 °F [175 °C]				
Pressure	20,000 psi [137 MPa]				
Transmitter-Receiver Spacings	22.835" (0.58m), 39.37" (1m)				
Frequencies	2 MHz and 400 kHz				
Compensation	Symmetrical Compensation				
Accuracy (2 MHz Phase Shift Resistivity Measurement)	+/- 2% to 50 Ωm +/- 10% to 200 Ωm				
Sand % Limitation	≤0.5%				
LCM Limitation	No limit				
Memory	512MB. 242,128 full records = 56d:1h:9m:12s @ 12 second sample rate				
Sampling Rate	20s minimum, user configurable depending on data resolution vs battery life requirements.				
Max RPM	No limit				
Voltage input	20V to 48V				
Vibration	20g RMS 30-300 Hz Random, 30g 50-300Hz Sine				
Shock	1000g/0.5mS				



mm]

9 m]

0.92 l/s]

Imperial UOM [Metric UOM]





HIGH-QUALITY FORMATION EVALUATION



Combining the MFPWR Resistivity[®] with our LWD gamma ray and litho neutron density caliper sensors provides an LWD "triple-combo" logging service for optimal wellbore placement and evaluation of reservoir lithology, porosity, fluid type, and oil/water/gas saturation.





Systems

+44-1224-781257

Remote Measurement Systems Limited is a subsidiary of NewTech Services Holding Limited, an international oilfield services company founded in 2009.

NewTech Services Holding Limited develops technology and expertise within 4 Business Divisions: Drilling Services, Completion Systems, Integrated Project Management, and Capital Equipment.

NewTech Services Holding Limited supplies technology products and services to the oil and gas exploration and production industry in Russia and CIS, Europe, Middle East, North and South America. Remote Measurement Systems Limited is a subsidiary of NewTech Services Holding Limited specializing in innovative drilling technology products such as MWD/LWD.

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Remote Measurement

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